|  |  |  |
| --- | --- | --- |
| Name: | Class: | Date: |

10.3 Evaluating Expressions

In math, “evaluate” means \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There are times when you will be given an expression and asked to evaluate it given the value of the variable(s) within it

For example – Solve the following expression (2y + 4) if:

1. y = 1
2. y = 3

Sometimes, you are asked to create a table of values using an expression such as the example on page 367.

Show You Know. Complete the practise question on the bottom of page 367

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1. How many line segments are in Figure 12 of this pattern?

10.4 Graphing Linear Equations

A linear relation is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ made by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that results in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

A graph is a visual way to show how \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Show You Know:

1. Imagine that for every pup in a cup, there are four fish at the store. Complete the table:



|  |  |  |
| --- | --- | --- |
| Number of Pups, *p* | Number of Fish, *f* | Ordered Pair *(p, f*) |
| 1 | 4 |  |
| 2 | 8 |  |
| 3 | 12 |  |
| 4 |  |  |
| 5 |  |  |

1. Graph the ordered pairs
2. Describe the pattern of points on your graph with:
3. Words
4. Distances on a graph
5. A relationship